5

10

15

20

## ABSTRACT OF THE DISCLOSURE

When training carried out prior to data communication is performed in digital subscriber line transmission (xDSL), the side which transmits training symbols adds some data that is contained in a training symbol sequence onto at least one of the beginning and end of this symbol sequence and then transmits the training symbol sequence. The receiving side removes the data that has been added onto the training symbol sequence and executes training processing. The length of the training symbol sequence and of a transmit symbol sequence at time of normal communication is set in such a manner that the symbol sequence will not fall within an interval in which effects of near-end crosstalk from a neighboring line are received. Further, at the time of training prior to data communication, timing information, which specifies an interval in which effects of crosstalk from a neighboring line are received, is inserted into a training symbol sequence and the training symbol sequence is transmitted from a device on the office side to a device on the subscriber side.